# (19) World Intellectual Property Organization International Bureau



## - 1 CODIO CITATO IL CONTINUI DI IL CONTINUI CONTINUI CONTINUI CONTINUI CONTINUI CONTINUI CONTINUI CONTINUI CON

(43) International Publication Date 29 September 2005 (29.09.2005)

**PCT** 

# (10) International Publication Number WO 2005/089900 A1

(51) International Patent Classification<sup>7</sup>: D03D 15/04, 15/08, 3/08

B01D 39/08,

(21) International Application Number:

PCT/FI2005/050098

- (22) International Filing Date: 21 March 2005 (21.03.2005)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 20040434

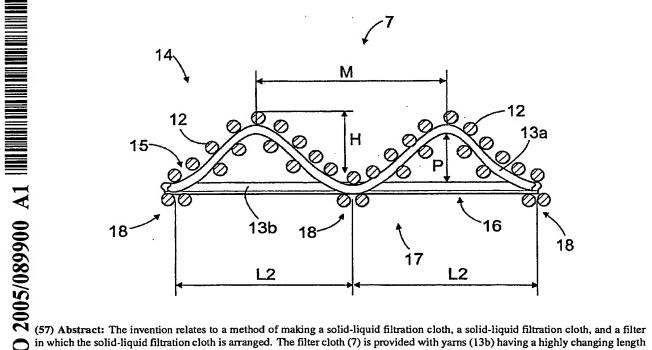
22 March 2004 (22.03.2004) F.

- (71) Applicant (for all designated States except US): TAM-FELT OYJ ABP [FI/FI]; Yrittäjänkatu 21, FI-33710 Tampere (FI).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): MÄKINEN, Antti [FI/FI]; Metsästäjäntie 1, FI-36200 Kangasala (FI). SORRI, Eino [FI/FI]; Isonportintie 4, FI-33800 Tampere (FI). REHAKKA, Heikki [FI/FI]; Tuurnankatu 16, FI-33270 Tampere (FI).

- (74) Agent: KOLSTER OY AB; Iso Roobertinkatu 23, P.O. Box 148, FI-00121 Helsinki (FI).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: SOLID-LIQUID FILTRATION CLOTH AND FILTERING DEVICE



(57) Abstract: The invention relates to a method of making a solid-liquid filtration cloth, a solid-liquid filtration cloth, and a filter in which the solid-liquid filtration cloth is arranged. The filter cloth (7) is provided with yarns (13b) having a highly changing length and a long free run in the weave. When the length of the yarns (13b) is allowed to shorten significantly, a filtration portion (15) on the side of a surface (14) of the cloth obtains a corrugated shape, providing the cloth with a large filtering area.



### WO 2005/089900 A1



#### Declarations under Rule 4.17:

as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR,

HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

- of inventorship (Rule 4.17(iv)) for US only

#### Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.